

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
Application Number				10/657,010	
Filing Date				September 5, 2003	
First Named Inventor				Kyosuke Achiwa	
Art Unit				2188	
Examiner Name				Mano Padmanabhan	
Attorney Docket Number				16869S-026610US	
Sheet	1	of	2		

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PB	1	US-6,539,462	03-25-2003	Mikkelsen et al.	
	2	US-5,819,020	10-08-1998	Beeler	
	3	US-5,742,792	04-21-1998	Yanai et al.	
	4	US-5,692,155	11-25-1997	Iskiyan et al.	
	5	US-5,544,347	08-06-1996	Yanai et al.	
	6	US-5,379,398	01-03-1995	Cohn et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	4/28/05
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Sheet	2	of	2	Attorney Docket Number	16869S-026610US

NON PATENT LITERATURE DOCUMENTS			
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<i>MB</i>	7	ROSENBLUM "The Design and Implementation of a Log-Structured File System," ACM Transactions on Computer Systems 10:26-52 (1992).	

Examiner Signature	<i>MB</i>	Date Considered	<i>4/28/05</i>
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PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	2	Application Number	10/657,010
				Filing Date	September 5, 2003
				First Named Inventor	Kyosuke Achiwa
				Art Unit	-2188
				Examiner Name	P. Baker
				Attorney Docket Number	16869S-026610US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-2004/0167942 A1	08-26-2004	Oshinsky et al.	
	2	US-6,760,723 B1	07-06-2004	Oshinsky et al.	
	3	US-2002/0116404 A1	08-22-2002	Cha et al.	
	4	US-6,378,054 B1	04-23-2002	Karasudani et al.	
	5	US-2002/0015336 A1	02-07-2002	Watkins et al.	
	6	US-5,522,037	05-28-1996	Kitagawa et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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60469120 v1

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete If Known</b>	
		Application Number	10/657,010
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		First Named Inventor	Kyosuke Achiwa
		Art Unit	2188
		Examiner Name	P. Baker
Sheet 2 of 2	Attorney Docket Number	16869S-026610US	

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PB	7	BURNS et al. "A Linear Time, Constant Space Differencing Algorithm," IEEE proceedings of the 1997 Performance, Computing, and Communications Conference pp. 429-436 (February 1997).	
PB	8	SVOBODOVA "File Servers For Network-Based Distributed Systems," ACM Computing Surveys 16:353 - 398 (December 1984).	

Examiner Signature		Date Considered	4/28/05
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PTO/SB/08A (08-03)

<b>Substitute for form 1600 PTO</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/657,010		
		Filing Date	September 5, 2003		
		First Named Inventor	Kyosuke Achiwa		
		Art Unit	2188		
		Examiner Name	P. Baker		
Sheet	1	of	3	Attorney Docket Number	16869S-026610US

U.S. PATENT DOCUMENTS+					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
P.B.	1	US-6,647,474	11-11-2003	Yanai et al.	
	2	US-6,625,705	09-23-2003	Yanai et al.	
	3	US-2003/167419	09-04-2003	Yanai et al.	
	4	US-6,587,919	07-01-2003	Yanai et al.	
	5	US-6,502,205	12-31-2002	Yanai et al.	
	6	US-6,418,509	07-09-2002	Yanai et al.	
	7	US-6,247,046	06-12-2001	Yanai et al.	
	8	US-6,230,239	05-08-2001	Sakaki et al.	
	9	US-6,185,653	02-06-2001	Yanai et al.	
	10	US-6,173,377	01-09-2001	Yanai et al.	
	11	US-6,003,114	12-14-1999	Bachmat.	
	12	US-6,996,045	11-30-1999	Lee et al.	
	13	US-5,978,890	11-02-1999	Ozawa et al.	
	14	US-5,960,216	09-29-1999	Vishitzky et al.	
	15	US-5,940,865	08-17-1999	Ohzora et al.	
	16	US-5,909,692	06-01-1999	Yanai et al.	
	17	US-5,901,327	05-04-1999	Ofek.	
	18	US-5,896,548	04-20-1999	Ofek.	
	19	US-5,835,954	11-10-1998	Duyanovich et al.	
	20	US-5,740,465	04-14-1998	Matsunami et al.	
	21	US-5,680,840	10-21-1997	Ofek et al.	
	22	US-5,664,144	09-02-1997	Yanai et al.	
	23	US-5,644,787	07-01-1997	Nakamura et al.	
	24	US-5,625,840	04-29-1997	Numata et al.	
	25	US-5,613,155	03-18-1997	Baldiga et al.	
	26	US-5,588,012	12-24-1996	Oizumi.	
	27	US-5,572,699	11-05-1996	Kamo et al.	
	28	US-5,235,690	08-10-1993	Beardsley et al.	
	29	US-5,206,939	04-27-1993	Yanai et al.	
	30	US-5,155,845	10-13-1992	Beal et al.	
	31	US-4,451,884	05-29-1984	Heath et al.	
	32	US-3,990,055	11-02-1976	Henderson et al.	

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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	33	JP	2000-305856	11-02-2000	Hitachi Ltd.		<input checked="" type="checkbox"/>
	34	JP	11-338847	12-10-1999	Hitachi Ltd.		<input checked="" type="checkbox"/>
	35	JP	09-325863	12-16-1997	Hitachi Ltd.		<input checked="" type="checkbox"/>

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60299419 v1

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				First Named Inventor	Kyosuke Achiwa
				Art Unit	2188
				Examiner Name	P. Baker
Sheet	2	of	3	Attorney Docket Number	16869S-026610US


FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
PB	36	JP	07-201132		08-04-1995	Mitsubishi Electric Corp		<input checked="" type="checkbox"/>
	37	JP	07-191811		07-28-1995	Hitachi Ltd		<input checked="" type="checkbox"/>
	38	JP	06-250795		09-09-1994	Hitachi Ltd		<input checked="" type="checkbox"/>
	39	JP	06-067811		03-11-1994	Fuji Xerox Co. Ltd		<input checked="" type="checkbox"/>
	40	JP	03-204023		09-05-1991	Fujitsu Ltd.		abstract only
	41	JP	02-059934		02-28-1990	NEC Corp		abstract only
	42	JP	64-033770		02-03-1989	NEC Corp		abstract only
	43	JP	58-219656		12-12-1983	Hitachi Ltd.		abstract only
	44	JP	58-151660		09-08-1983	Hitachi Ltd.		abstract only
	PB	45	PCT	WO 01/04754	A2	01-18-2001	Hitachi Data Systems	
46		PCT	WO 98/20419	A1	05-14-1998	Vinca Inc.		

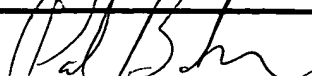
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	47	"Symmetrix Data Migration Services (SDMS)" EMC2 Symmetrix ICDA Family Product Information (2000).	

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